

Title (en)  
DELIVERY OF SHORT MESSAGES IN A PACKET RADIO NETWORK

Title (de)  
BEFÖRDERUNG VON KURZMITTEILUNGEN IN EINEM PAKET-FUNKNETZ

Title (fr)  
DELIVRANCE DE MESSAGES COURTS DANS UN RESEAU RADIOTELEPHONIQUE PAR PAQUETS

Publication  
**EP 0937365 B1 20050112 (EN)**

Application  
**EP 98912536 A 19980401**

Priority  
• FI 9800294 W 19980401  
• FI 971381 A 19970403

Abstract (en)  
[origin: WO9844640A2] The invention relates to delivery of short messages to mobile stations and particularly to delivery of short messages in mobility-supporting packet radio networks that use a mobile communications network as an access network, to a dual-mode mobile station in a situation where the mobile station is not reachable in the packet radio network. The object of the invention is to minimize unnecessary signalling. The invention is based on the fact that parameters controlling the network elements are inserted into the signalling messages and a flag indicating the state of the mobile station is inserted into the home location register. In the method and radio network of the invention, the signalling messages may contain parameters by means of which 1) delivery of a short message through the secondary network is prevented, 2) information on the fact that an attempt was made to reach the mobile station but the attempt was not successful is sent to the node of the secondary network, 3) the node of the secondary network is prevented from informing the home location register of the mobile station of the attach of the mobile station to the network, 4) information is sent to the home location register on the fact that the mobile station cannot be reached through the primary network, and 5) information is sent to the gateway mobile switching center for short message service on the fact that the mobile station can be reached through the primary network even though the short message was delivered through the secondary network.

IPC 1-7  
**H04Q 7/22**

IPC 8 full level  
**H04W 84/00** (2009.01); **H04W 88/18** (2009.01); **H04W 4/12** (2009.01)

CPC (source: EP US)  
**H04W 4/12** (2013.01 - EP US); **H04W 88/184** (2013.01 - EP US)

Cited by  
US10390188B2; US8630668B2; EP2389020B1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9844640 A2 19981008; WO 9844640 A3 19990107**; AT E287184 T1 20050115; AU 6733498 A 19981022; CA 2257189 A1 19981008; CA 2257189 C 20080122; CN 1106127 C 20030416; CN 1229562 A 19990922; DE 69828581 D1 20050217; DE 69828581 T2 20051201; DE 69828581 T3 20110505; EP 0937365 A2 19990825; EP 0937365 B1 20050112; EP 0937365 B2 20100929; ES 2235323 T3 20050701; ES 2235323 T5 20110110; FI 105873 B 20001013; FI 971381 A0 19970403; FI 971381 A 19981004; JP 2000511754 A 20000905; JP 4226081 B2 20090218; MY 119521 A 20050630; PT 937365 E 20050429; TW 344180 B 19981101; US 6370390 B1 20020409; ZA 982684 B 19981005

DOCDB simple family (application)  
**FI 9800294 W 19980401**; AT 98912536 T 19980401; AU 6733498 A 19980401; CA 2257189 A 19980401; CN 98800595 A 19980401; DE 69828581 T 19980401; EP 98912536 A 19980401; ES 98912536 T 19980401; FI 971381 A 19970403; JP 54120198 A 19980401; MY PI9801435 A 19980401; PT 98912536 T 19980401; TW 86110727 A 19970728; US 19465298 A 19981201; ZA 982684 A 19980331